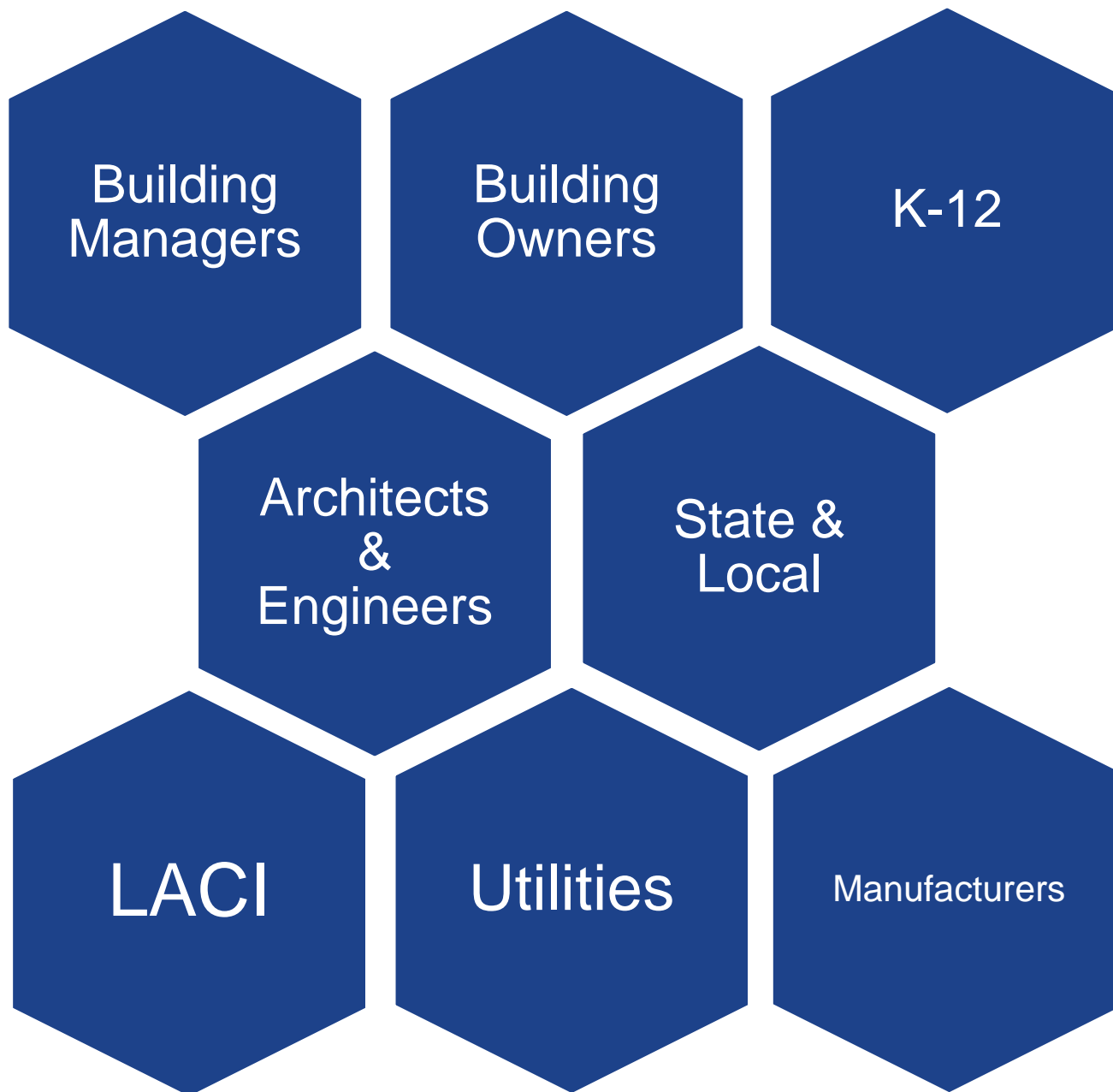


# Technology Partnerships





	Better Buildings Challenge	Better Buildings Alliance
Goal	20+% energy intensity reduction in U.S. portfolio	Set a goal
Data Reporting	Required; Building level	Optional; Portfolio level
Solution Sharing	Two case studies	Optional
Recognition	National recognition, media events	Limited





**Commercial Real Estate**



**Food Service, Retail, and Grocery**



**Healthcare**



**Hospitality**



**Higher Education**

# Technology Solutions Teams



Building Envelope  
(NEW!)



Plug and Process  
Loads



Refrigeration



Renewables  
Integration



Energy  
Management  
Information  
Systems



Space  
Conditioning



Lighting and  
Electrical





**Melissa Voss Lapsa**

Oak Ridge National  
Laboratory



**Rois Langner**

National Renewable Energy  
Laboratory



**Michael Deru**

National Renewable Energy  
Laboratory



**Linda Sandahl**

Pacific Northwest National  
Laboratory



**Jessica Granderson**

Lawrence Berkeley National  
Laboratory



**Justin Elszasz**

Navigant Consulting



**Jay Paidipati**

Navigant Consulting





The diagram consists of two dark blue rounded rectangular boxes side-by-side. The left box contains the text 'Objective research' and the right box contains 'Input from partners'. A green curved arrow at the top points from the left box to the right box, and a green curved arrow at the bottom points from the right box back to the left box, forming a continuous loop.

Objective  
research

Input from  
partners





## Kelco Management

Upgrading exterior lighting, didn't know how much energy they were using



## Pacific Northwest National Laboratory

Provided per-room energy usage metric



## Outcome

69% energy savings compared to the existing facility and more than 40,000 kWh saved



## University in California

What variables should we be considering for our interval data models? How do we forecast savings into future time periods?



## Lawrence Berkeley National Laboratory

Provided guidance on best practices, key considerations, and lessons learned from application of similar approaches in prior work

## Outcome

University is improving their energy models with support from LBNL staff, and they will be continuing to work with the university to refine the modeling techniques



## Adidas

What efficiency specification they should they use for purchasing new RTUs



## National Renewable Energy Laboratory

Provided the Advanced RTU Campaign performance specification to adidas

## Outcome

adidas incorporated the Advanced RTU Campaign specification in their RFP for new RTUs, which is used for competitive pricing for new RTUs

BETTER BUILDINGS ALLIANCE DEMONSTRATION OPPORTUNITIES:  
COMMERCIAL HEAT PUMP WATER HEATERS

The U.S. Department of Energy (DOE) and the Better Buildings Alliance have released technology specifications that have the potential to offer significant benefit to various end-use energy consumers in commercial buildings. As part of its specification deployments efforts, DOE is offering commercial building owners the opportunity to partner in heat pump water heater (HPWH) demonstrations. Participating organizations receive a discounted high-efficiency product in exchange for their cooperation with the field study and can see firsthand the performance, energy savings, and economic benefits of commercial heat pump water heaters. The host site also receives recognition in DOE literature for their participation and commitment to efficient buildings.



Photo credit: AO Smith®

AO Smith "AWH" commercial heat pump water heater

savings of each demonstration site will be measured

**Project Benefits**

## Fact Sheets

**adidas RTU Planned Replacement Program**

adidas has received several recognitions for their significant sustainability efforts; as such, they are a role model for retail companies that want to improve energy efficiency at their stores. As part of their efficiency efforts, adidas is heavily involved in the Advanced Rooftop Unit (RTU) Campaign,<sup>1</sup> the Professional Retail Store Maintenance Association, and other leading facilities maintenance organizations.

adidas implemented a successful planned RTU replacement program to save energy and avoid costly emergency replacements. This approach allows them to standardize equipment features, streamline the process, reduce costs, and provide



adidas store exterior view from adidas

## Case Studies

## High Efficiency Troffer Performance Specification

Version: 6.0

## Technical Specifications



# Better Buildings Solution Center



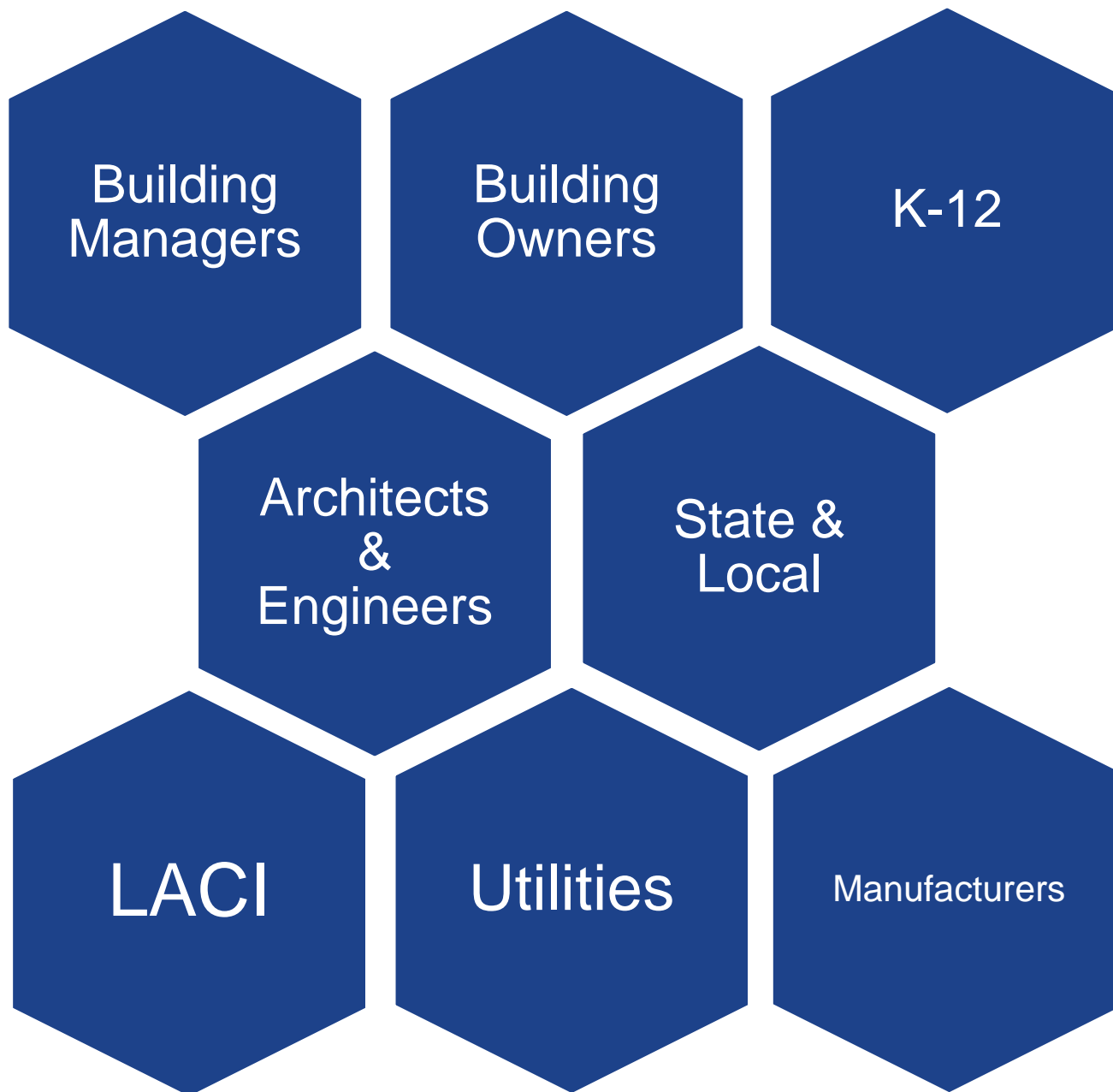
## Proven Solutions for:

- Large and small buildings
- All sectors
- Specific building types

## Search by:

- Your energy efficiency barrier
- Your sector
- Your city or state

[betterbuildingsolutioncenter.energy.gov](http://betterbuildingsolutioncenter.energy.gov)



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